—Standard Valves—

4242-A VALVE

TRIODE.

The 4242-A valve is similar to the 4211-D valve but employs a molybdenum anode and hard glass bulb.

SPECIFICATION.

Cathode.

Thoriated tungsten filament. Constant voltage type.

Base.

Large 4-pin bayonet.

Dimensions.

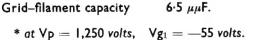
Max. overall length 8" (20.4 cms.)

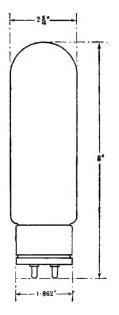
Max. bulb diameter $2\frac{5}{16}$ " (5.9 cms.)

Net weight 0.36 lbs. (164 gms.)

Constants.

Filament voltage 10 volts Nominal filament current 3.25 amps. Total emission 1.5 amps. *Impedance 3,100 ohms *Amplification factor 13 *Mutual conductance Grid-anode capacity Anode-filament capacity 4 $\mu\mu$ F.







LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage 1,250 volts

Maximum direct anode current 0.150 amps.

Maximum anode dissipation 85 watts

Maximum direct grid current 0.050 amps.

Maximum frequency for above ratings 6 Mc.

Maximum anode voltage for frequency of 30 Mc. 600 volts

Note: —This valve should be mounted so that the plane of the filament is vertical.

-Standard Valves-

TYPICAL OPERATING CONDITIONS.

	Class A AF Amp. and Mod.		
Direct anode voltage Grid bias Direct anode current Load impedance Undistorted output	1,250 1,000 volts		

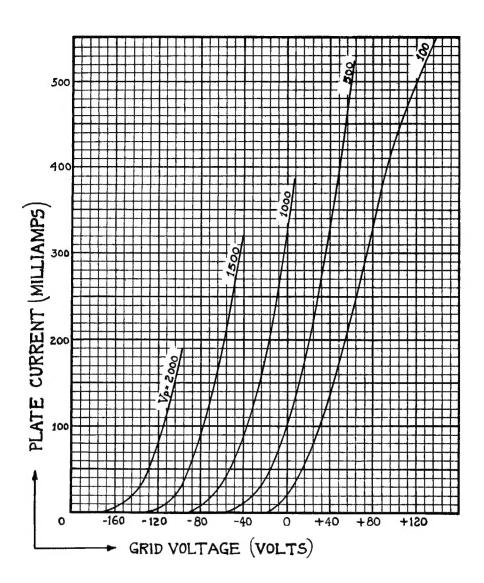
	Class B AF Amp. and Mod. For balanced 2 valve circuits.		
Direct anode voltage	1,250	1,000	volts
Grid bias	80	—55	volts
Anode current per valve—zero signal	0.030	0.030	amps.
Anode current per valve—maximum signal	0.150	0.150	amps.
Anode dissipation	80	70	watts
Load resistance—anode to anode	8,000	6,000	ohms
Maximum output—2 valves	200	160	watts

RADIO FREQUENCY OPERATION.

	Class B Telephony Modulated carrier applied to grid			Class C Telephony		Class C Telegraphy	
			Subject to anode modulation		Unmodulated		
Direct anode voltage Direct anode current Grid bias	1,250 0-106 —90	1,000 0-130 —70	1,000 0·150 —160	750 0·130 —120	1,250 0·150 —150 —200	1,000 volts 0-150 amps. 120 to 160 volts	
Carrier output Anode dissipation	44 85	43 85	100 50	64 32	130 58	100 watts 50 watts	

The curves on sheet V.4242-A.2 are taken with A.C. filament heating, grid and anode voltages being referred to the centre point of the filament.

—Standard Valves—



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